```
=>@dwhis.
     (FILE 'HCAPLUS' ENTERED AT 13:01:51 ON 14 MAR 2002)
                DEL HIS Y
     FILE 'REGISTRY' ENTERED AT 13:02:35 ON 14 MAR 2002
                ACT EVER/A
           3186) SEA FILE=REGISTRY ABB=ON 14246.1.1/RID
L1
          4284) SEA FILE=REGISTRY ABB=ON 13750.2.1/RID
L2
          13726) SEA FILE=REGISTRY ABB=ON 14099.3.1/RID
L3
          21151) SEA FILE=REGISTRY ABB=ON L1 OR L2 OR L3
L4 (
L5
                STR
             77 SEA FILE=REGISTRY SUB=L4 SSS FUL L5
L6
             17 S L6 AND NC=1
1.7
             57 S L6 AND NC=2
rs
L9
              1 S 17465-86-0
              1 S 10016-20-3
L10
             1 S 7585-39-9
L11
     FILE 'HCAPLUS' ENTERED AT 13:03:52 ON 14 MAR 2002
L12
             58 S L6
L13
             12 S L7
L14
             45 S L8
              1 S L14 AND (AMINOOXY? OR AMINO OXY?)
L15
              6 S L14 AND DERIV?
L16
L17
              6 S L15 OR L16
L18
           3781 S L9/D OR L10/D OR L11/D
              1 S L18 AND (AMINO OXY? OR AMINOOXY? OR AMINOOXY?/AB OR AMINO OXY
L19
L20
          17 S. L19 OR L17 OR L13
     FILE 'REGISTRY' ENTERED AT 13:06:27 ON 14 MAR 2002
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```
FILE 'HCAPLUS' ENTERED AT 13:07:16 ON 14 MAR 2002
L21 300448 S NUCLEOSID? OR NUCLEOTID? OR PYRIMIDINE?
L22 0 S L 14 AND L21
L23 218299 S (NUCLEOSID? OR NUCLEOTID? OR PYRIMIDINE?)/AB
L24 0 S L23 AND L14
```

=> fil reg FILE 'REGISTRY' ENTERED AT 13:06:27 ON 14 MAR 2002 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2002 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 12 MAR 2002 HIGHEST RN 400707-37-1 DICTIONARY FILE UPDATES: 12 MAR 2002 HIGHEST RN 400707-37-1

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the H/Z/CA/CAplus files between 12/27/01 and 1/23/02. Use of the P indicator in online and SDI searches during this period, either directly appended to a CAS Registry Number or by qualifying an L-number with /P, may have yielded incomplete results. As of 1/23/02, the situation has been resolved. Also, note that searches conducted using the PREP role indicator were not affected.

Customers running searches and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry Numbers with the P indicator between 12/27/01 and 1/23/02, are encouraged to re-run these strategies. Contact the CAS Help Desk at 1-800-848-6533 in North America or 1-614-447-3698, worldwide, or send an e-mail to help@cas.org for further assistance or to receive a credit for any duplicate searches.

```
=> d que 16;d his 18
L1 ( 3186)SEA FILE=REGISTRY ABB=ON 14246.1.1/RID
L2 ( 4284)SEA FILE=REGISTRY ABB=ON 13750.2.1/RID
L3 ( 13726)SEA FILE=REGISTRY ABB=ON 14099.3.1/RID
L4 ( 21151)SEA FILE=REGISTRY ABB=ON L1 OR L2 OR L3
L5 STR

O-N

O-N
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NODE ATTRIBUTES:
CONNECT IS E2 RC AT 1
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 2

STEREO ATTRIBUTES: NONE L6 77 SEA FILE=REGISTRY SUB=L4 SSS FUL L5

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=> d his 17
     (FILE 'REGISTRY' ENTERED AT 13:02:35 ON 14 MAR 2002)
                                   cyclodex with 1 component
L7
            1778 L6 AND NC=1
=> d his 18
     (FILE 'REGISTRY' ENTERED AT 13:02:35 ON 14 MAR 2002)
r8
             57 S L6 AND NC=2
                                     CD,2
                                               NF. w
=> d que 19;d 19
              1 SEA FILE=REGISTRY ABB=ON 17465-86-0
L9
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
L9
     17465-86-0 REGISTRY
RN
     .gamma.-Cyclodextrin (8CI, 9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
     2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-Hexadecaoxanonacyclo[36.2.2.23
     ,6.28,11.213,16.218,21.223,26.228,31.233,36]hexapentacontane,
     .gamma.-cyclodextrin deriv.
OTHER NAMES:
CN
     .gamma.-Dextrin
CN
     Cyclomaltooctaose
CN
     Cyclooctaamylose
     Dexy Pearl .gamma.-100
CN
CN
     Ringdex C
     Stereoisomer of 5,10,15,20,25,30,35,40-octakis(hydroxymethyl)-
CN
     2,4,7,9,12,14,17,19,22,24,27,29,32,34,37,39-hexadecaoxanonacyclo[36.2.2.23
     ,6.28,11.213,16.218,21.223,26.228,31.233,36]hexapentacontane-
     41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56-hexadecol
     216309-81-8, 217487-02-0
DR
MF
     C48 H80 O40
CI
     COM
                  AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
LC
     STN Files:
       BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES,
       DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS,
       PHAR, PIRA, PROMT, TOXCENTER, USPATFULL, VETU
         (*File contains numerically searchable property data)
                      EINECS**, NDSL**, TSCA**
     Other Sources:
```

(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2830 REFERENCES IN FILE CA (1967 TO DATE)
623 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2840 REFERENCES IN FILE CAPLUS (1967 TO DATE)

```
L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
     10016-20-3 REGISTRY
RN
     Raupha - Gyclodextrin (8CI, 9CI)
                                     (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
     2,4,7,9,12,14,17,19,22,24,27,29-Dodecaoxaheptacyclo[26.2.2.23,6.28,11.213,
CN
     16.218,21.223,26]dotetracontane, .alpha.-cyclodextrin deriv.
CN
     Cyclohexaamylose (6CI)
OTHER NAMES:
CN
     .alpha.-Cycloamylose
     .alpha.-Dextrin
CN
     .alpha.-Schardinger dextrin
CN
CN
     Alfadex
     Celdex A 100
CN
CN
     Cyclohexadextrin
CN
     Cyclomaltohexaose
CN
     Cyclomaltohexose
CN
     Dextrin, .alpha.-cyclo
     Dexy Pearl .alpha.-100
CN
     Ringdex A
CN
     Stereoisomer of 5,10,15,20,25,30-hexakis(hydroxymethyl)-
CN
```

2,4,7,9,12,14,17,19,22,24,27,29-dodecaoxaheptacyclo[26.2.2.23,6.28,11.213,

16.218,21.223,26]dotetracontane-31,32,33,34,35,36,37,38,39,40,41,42dodecol FS STEREOSEARCH 23513-50-0, 41871-62-9, 47910-04-3 DR C36 H60 O30 MF CI COM AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, LC STN Files: BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USAN, USPATFULL, VETU (*File contains numerically searchable property data) Other Sources: EINECS**, NDSL**, TSCA**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3685 REFERENCES IN FILE CA (1967 TO DATE)
733 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3695 REFERENCES IN FILE CAPLUS (1967 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS RN 7585-39-9 REGISTRY CN .beta.-Cyclodextrin (8CI, 9CI) (CA INDEX NAME) OTHER CA INDEX NAMES:

```
2,4,7,9,12,14,17,19,22,24,27,29,32,34-Tetradecaoxaoctacyclo[31.2.2.23,6.28
CN
     ,11.213,16.218,21.223,26.228,31]nonatetracontane, .beta.-cyclodextrin
     deriv.
CN
     Cycloheptaamylose (7CI)
OTHER NAMES:
CN
     .beta.-Cycloamylose
     .beta.-Cycloheptaamylose
CN
CN
     .beta.-Dextrin
CN
     Betadex
     Cavamax W 7
CN
     Celdex B 100
CN
     Celdex N
CN
     Cycloheptaglucan
CN
CN
     Cycloheptaglucosan
     Cyclomaltoheptaose
CN
     Dextrin, .beta.-cyclo
CN
CN
     Kleptose
     Kleptose B
CN
CN
     NSC 314334
CN
     Rhodocap N
CN
     Ringdex B
CN
     Ringdex BL
     Schardinger .beta.-dextrin
CN
     Stereoisomer of 5,10,15,20,25,30,35-heptakis(hydroxymethyl)-
CN
     2,4,7,9,12,14,17,19,22,24,27,29,32,34-tetradecaoxaoctacyclo[31.2.2.23,6.28
     ,11.213,16.218,21.223,26.228,31]nonatetracontane-
     36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49-tetradecol
     STEREOSEARCH
FS
     37331-89-8, 47918-72-9
DR
MF
     C42 H70 O35
CI
     COM
                  ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
LC
     STN Files:
       BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
       CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE,
       GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, NAPRALERT, NIOSHTIC,
       PIRA, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL, VETU, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**, WHO
         (**Enter CHEMLIST File for up-to-date regulatory information)
```

PAGE 2-A

ОН

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

9468 REFERENCES IN FILE CA (1967 TO DATE)
3461 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
9553 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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FILE COVERS 1907 - 14 Mar 2002 VOL 136 ISS 11 FILE LAST UPDATED: 12 Mar 2002 (20020312/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information. 'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d his 112-

```
(FILE 'HCAPLUS' ENTERED AT 13:03:52 ON 14 MAR 2002)
L12
             58 S L6
             12 S L7
L13
L14
             45 S L8
              1 S L14 AND (AMINOOXY? OR AMINO OXY? )
L15
              6 S L14 AND DERIV?
L16
L17
              6 S L15 OR L16
L18
           3781 S L9/D OR L10/D OR L11/D
              1 S L18 AND (AMINO OXY? OR AMINOOXY? OR AMINOOXY?/AB OR AMINO OXY
L19
           17 S L19 OR L17 OR L13
L20
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FILE 'REGISTRY' ENTERED AT 13:06:27 ON 14 MAR 2002

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FILE 'HCAPLUS' ENTERED AT 13:07:16 ON 14 MAR 2002
=> d .ca hitstr 120 1-17
L20 ANSWER 1 OF 17 HCAPLUS COPYRIGHT 2002 ACS
                           2000:461510 HCAPLUS
ACCESSION NUMBER:
                           133:171413
DOCUMENT NUMBER:
                           Synthesis of .beta.-cyclodextrin and glucoside
TITLE:
                           compounds-bonded porphyrins and metal porphyrins
                           Li, Zao-Ying; Li, Cong; Li, Li; Wang, Tie-Feng
AUTHOR(S):
CORPORATE SOURCE:
                           Department of Chemistry, Northwest University, Xi'an,
                           710069, Peop. Rep. China
                           Gaodeng Xuexiao Huaxue Xuebao (2000), 21(6), 840-843
SOURCE:
                           CODEN: KTHPDM; ISSN: 0251-0790
PUBLISHER:
                           Gaodeng Jiaoyu Chubanshe
DOCUMENT TYPE:
                           Journal
                           Chinese
LANGUAGE:
     The reaction of mono-6-hydroxy permethylated .beta.-cyclodextrin (PM
     .beta.-CD-CH2OH) with trifluoromethanesulfuric anhydride under N2 gave mono-6-trifluoromethanesulfonate permethylated .beta.-cyclodextrin (6).
```

Compd. 6 reacted with nickel porphyrin [Ni(TPNH2P)] (2, H2TPNH2P = 5-(p-aminophenyl)-10,15,20-triphenylporphyrin) or [Ru(CO)(TPNH2P)] (3) to

produce .beta.-cyclodextrin linked metalloporphyrins 7 and 8. 2,3,4,6-Tetra-O-acetyl-.alpha.-D-glucopyranosyl bromide (4) and 2,3,5-tri-O-acetyl-.beta.-D-ribofuranosyl brimide(5) underwent condensation reactions with H2TPNH2P (1) to afford porphyrin-glucopyranosyl and -ribofuranosyl derivs. 9 and 10, resp. The new compds. 6-10 were identified by IR, UV-visible, 1H NMR, elemental anal., and also ESI-MS for compd. 6.

CC 78-7 (Inorganic Chemicals and Reactions)

Section cross-reference(s): 26, 33

IT 287971-52-2P 287971-54-4P 287971-56-6P 287971-58-8P RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

IT 287971-52-2P 287971-54-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 287971-52-2 HCAPLUS

CN Nickel, [2A, 2B, 2C, 2D, 2E, 2F, 2G, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 6A, 6B, 6C, 6D, 6E, 6F-eicosa-.kappa.O-methyl-6G-O-[[4-(10, 15, 20-triphenyl-21H, 23H-porphin-5-yl-.kappa.N21,.kappa.N22,.kappa.N23,.kappa.N24)phenyl]amino]-.beta.-cyclodextrinato(2-)]-, (SP-4-2)- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-B

-- OMe

--- OMe

RN 287971-54-4 HCAPLUS

CN Ruthenium, carbonyl[2A, 2B, 2C, 2D, 2E, 2F, 2G, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 6A, 6B, 6C, 6D, 6E, 6F-eicosa-.kappa.O-methyl-6G-O-[[4-(10,15,20-triphenyl-21H,23H-porphin-5-yl-.kappa.N21,.kappa.N22,.kappa.N23,.kappa.N24)phenyl]amino]-.beta.-cyclodextrinato(2-)]-, (SP-5-52)- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

PAGE 2-A

MeO-

MeO-

PAGE 2-B

PAGE 3-A

R \ ∪ ■ 0

L20 ANSWER 2 OF 17 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:288497 HCAPLUS

DOCUMENT NUMBER: 133:164300

TITLE: Synthesis and pharmacological properties of an

.alpha.-cyclodextrin assembled neuropeptide Y fragment

AUTHOR(S): Yokokawa, Yoshihiro; Grouzmann, Eric; Bourgeois,

Jean-Pascal; Eggleston, Ian; Dumy, Pascal;

Tuchscherer, Gabriele; Mutter, Manfred

CORPORATE SOURCE: Pharmaco Science Research Laboratories, Shiseido Co.,

Ltd., Yokohama, 223, Japan

SOURCE: Peptides 1998, Proceedings of the European Peptide

Symposium, 25th, Budapest, Aug. 30-Sept. 4, 1998 (1999)

), Meeting Date 1998, 322-323. Editor(s): Bajusz, Sandor; Hudecz, Ferenc.

Akademiai Kiado: Budapest, Hung.

CODEN: 68WKAY

DOCUMENT TYPE: LANGUAGE: Conference English

AB A symposium report. We report on the synthesis of TASP (template assembled synthetic proteins) mols. able to bind to neurotensin Y and angiotensin II receptors, in which .alpha.-cyclodextrin is used as template.

CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 1, 33

IT 52530-60-6P 287962-52-1P

RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (synthesis and pharmacol. properties of .alpha.-cyclodextrin assembled neuropeptide Y fragment)

IT 287962-52-1P

RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (synthesis and pharmacol. properties of .alpha.-cyclodextrin assembled neuropeptide Y fragment)

RN 287962-52-1 HCAPLUS

CN .alpha.-Cyclodextrin, 6A,6B,6C,6D,6E,6F-hexakis[[(aminooxy)acetyl]amino]-6A,6B,6C,6D,6E,6F-hexadeoxy-(9CI) (CA INDEX NAME)

PAGE 2-A

PAGE 3-A

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 3 OF 17 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1999:576949 HCAPLUS

DOCUMENT NUMBER:

131:215795

TITLE:

Preparation of aminooxy derivatives

of cyclodextrins

INVENTOR(S):

Khomutov, Alexei Radievich; Yakovlev, Dmitry

Yurievich; Khomutov, Radii Mikhailovich; Korpela, Timo

PATENT ASSIGNEE(S):

Russia

SOURCE:

PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.				KIND		DATE			APPLICATION NO.					DATE				
WO	9945032			A	1	19990910			WO 1999-FI167					19990304				
	W:	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,	
		DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	
						ΚZ,												
						PL,												
		TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZW,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	
		ТJ,																
	RW:	GH,																
						GR,							SE,	BF,	ВJ,	CF,	CG,	
		CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG						
FI	FI 9800489			A 19990905				FI 1998-489 19980304										
ΑU	9926279		A1 19990920															
EP	1090041			A1 20010411					EP 1999-906292				2	19990304				
	R:	DE,	DK,	ES,	FR,	GB,	ΙΤ,	NL,	SE,	FI								

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FI 1998-489
                                                         A 19980304
PRIORITY APPLN. INFO.:
                                                         W 19990304
                                        WO 1999-FI167
                         MARPAT 131:215795
OTHER SOURCE(S):
    The title derivs. CD-(X-Y-ONH2)n (CD = mono- or polydeoxy .alpha.-,
     .beta.-, or .gamma.-cyclodextrin, carrying in its 6-, 3- and/or 2-position
     a group contq. aminooxy group, and optionally carrying
     substituents different from X-Y-ONH2; Y = linker group between
     aminooxy group and mono- or polydeoxy-CD group; X = functional
     group or an atom necessary to connect Y and the deoxy CD group, or Y =
    direct bond when X = direct bond; n .gtoreq.1 but .ltoreq.24, 21, and 18,
     for .alpha.-, .beta.- and .gamma.-cyclodextrin, resp.) and the protected
     aminooxy derivs. thereof, such as acetonoxime of mono-6-(2-
    aminooxyethyl)thio-6-deoxy-.beta.-cyclodextrin, are prepd.
    ICM C08B037-16
    ICS A61K047-40
     44-6 (Industrial Carbohydrates)
CC
    aminooxy deriv cyclodextrin; aminooxyethylthio
ST
    deoxycyclodextrin acetonoxime
    242150-88-5P 242150-91-0P 242150-92-1P
IT
    RL: IMF (Industrial manufacture); PREP (Preparation)
        (prepn. of aminooxy-cyclodextrin derivs. and
        protected derivs.)
    242150-89-6P 242150-90-9P
ΙT
     RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)
        (prepn. of aminooxy-cyclodextrin derivs. and
       protected derivs.)
IT
     54-47-7, Pyridoxal-5-phosphate
                                      67-64-1, 2-Propanone, reactions
     574-25-4, 6-Mercaptopurine riboside 591-28-6, 4-Thiouracil
    7585-39-9D, .beta.-Cyclodextrin, aminooxy-substituted
     alk(en)yl ethers 10016-20-3D, .alpha.-Cyclodextrin,
     aminooxy-substituted alk(en)yl ethers 17465-86-0D,
     .gamma.-Cyclodextrin, aminooxy-substituted alk(en)yl ethers
                               67217-55-4, Mono-6-O-tosyl-.beta.-cyclodextrin
     60302-08-1
                  60302-09-2
                   242150-87-4
     112174-48-8
    RL: RCT (Reactant)
        (prepn. of aminooxy-cyclodextrin derivs. and
       protected derivs.)
TΤ
    242150-88-5P 242150-91-0P 242150-92-1P
    RL: IMF (Industrial manufacture); PREP (Preparation)
        (prepn. of aminooxy-cyclodextrin derivs. and
       protected derivs.)
    242150-88-5 HCAPLUS
RN
     .beta.-Cyclodextrin, 6A-S-[2-[[(1-ethoxyethylidene)amino]oxy]ethyl]-6A-
CN
    thio- (9CI) (CA INDEX NAME)
Absolute stereochemistry.
```

Page 16

Double bond geometry unknown.

RN 242150-91-0 HCAPLUS

CN .beta.-Cyclodextrin, 6A-S-[4-(aminooxy)butyl]-6A-thio-, hydrochloride (9CI) (CA INDEX NAME)

Н

PAGE 2-A

● HCl

PAGE 2-A

S CMe 2

- IT 242150-89-6P 242150-90-9P
 - RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)
 (prepn. of aminooxy-cyclodextrin derivs. and
 protected derivs.)
- RN 242150-89-6 HCAPLUS
- CN .beta.-Cyclodextrin, 6A-S-[2-(aminooxy)ethyl]-6A-thio-, hydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A



● HCl

RN 242150-90-9 HCAPLUS
CN .beta.-Cyclodextrin, 6A-S-[4-[[(1-ethoxyethylidene)amino]oxy]butyl]-6Athio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

(prepn. of aminooxy-cyclodextrin derivs. and protected derivs.)

RN 7585-39-9 HCAPLUS

CN .beta.-Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

OEt

PAGE 2-A



RN 10016-20-3 HCAPLUS

.alpha.-Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.

CN

RN 17465-86-0 HCAPLUS CN .gamma.-Cyclodextrin (8CI, 9CI) (CA INDEX NAME)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 4 OF 17 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1999:295973 HCAPLUS

DOCUMENT NUMBER: 131:15633

TITLE: Burst kinetics and turnover in an esterase mimic

AUTHOR(S): Breslow, Ronald; Nesnas, Nasri

CORPORATE SOURCE:

Department of Chemistry, Columbia University, New

York, NY, 10027, USA

SOURCE:

Tetrahedron Lett. (1999), 40(17), 3335-3338

CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: LANGUAGE:

Journal English

AB A catalyst combining a cyclodextrin binding group with a bound zinc cation and an oxime anion cleaves bound esters in a two step process. The hydrolysis kinetics of p-nitrophenyl acetate and p-tert-butylphenyl acetate were studied using the zinc catalyst. The zinc complex catalyst was shown work faster than analogous nickel(II) or copper(II) complexes and zinc bound to the cyclodextrin with the oxime functional group on the secondary face is preferred over that bound to the primary face.

CC 7-4 (Enzymes)

Section cross-reference(s): 22, 33, 67

IT 226421-11-0

RL: BSU (Biological study, unclassified); CAT (Catalyst use); RCT
(Reactant); BIOL (Biological study); USES (Uses)
 (procatalyst for zinc cyclodextrin oximato deriv. complex esterase mimic)

IT 226421-11-0

RL: BSU (Biological study, unclassified); CAT (Catalyst use); RCT
(Reactant); BIOL (Biological study); USES (Uses)
 (procatalyst for zinc cyclodextrin oximato deriv. complex esterase mimic)

RN 226421-11-0 HCAPLUS

CN .beta.-Cyclodextrin, 3A-deoxy-3A-[[[9-[(methoxyimino)methyl]-1,10-phenanthrolin-2-yl]methyl]amino]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

PAGE 1-A

OH OH



THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS 7 REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2002 ACS L20 ANSWER 5 OF 17

ACCESSION NUMBER: DOCUMENT NUMBER:

1998:600670 HCAPLUS

129:302779

TITLE:

SOURCE:

Effects of solvents on the chirality of

ferrichrome-mimicking Fe3+ complexes based on

.alpha.-cyclodextrin

AUTHOR(S):

Hori, Yuji; Tamagaki, Seizo

CORPORATE SOURCE:

Dep. of Bioapplied Chemistry, Faculty of Engineering,

Osaka City University, Osaka, 558-8585, Japan

Nippon Kagaku Kaishi (1998), (9), 602-608

CODEN: NKAKB8; ISSN: 0369-4577

PUBLISHER:

Nippon Kagakkai

DOCUMENT TYPE:

Journal

LANGUAGE:

Japanese

An .alpha.-cyclodextrin-based three-fold sym. tripodal ferrichrome mimic contg. three MeN(OH)COCH2CH2CONH side chains [I; R = NHCOCH2CH2CON(OH)Me] was designed and synthesized. The chirality of its complex with Fe3+ ion

was examd. in various solvents such as water, methanol, and acetonitrile by using CD spectroscopy. The chirality varied remarkably with changing solvents. A mechanism involving hydrogen-bonding with solvent, which dets. the chirality, was proposed.

CC 33-7 (Carbohydrates)

Section cross-reference(s): 68, 78

IT 127-06-0P, Acetone oxime 622-33-3P, O-Benzylhydroxylamine 3376-36-1P 22513-22-0P, N-Methyl-O-benzylhydroxylamine 214556-56-6P 214556-57-7P 214556-59-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (effects of solvents on chirality of ferrichrome-mimicking Fe3+ complexes based on .alpha.-cyclodextrin)

IT 214556-59-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (effects of solvents on chirality of ferrichrome-mimicking Fe3+ complexes based on .alpha.-cyclodextrin)

RN 214556-59-9 HCAPLUS

CN .alpha.-Cyclodextrin, 6B,6D,6F-trideoxy-2A,2C,2E,3A,3C,3E,6A,6C,6E-nona-0-methyl-6B,6D,6F-tris[[4-[methyl(phenylmethoxy)amino]-1,4-dioxobutyl]amino]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

$$\begin{array}{c|c} H & O & Me \\ \hline N & O & Ph \\ \end{array}$$

PAGE 3-A

L20 ANSWER 6 OF 17 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER:

1997:108750 HCAPLUS

DOCUMENT NUMBER:

126:225489

TITLE:

Synthesis and biological evaluation of

2-amino-2-deoxy- and 6-amino-6-deoxycyclomaltoheptaose polysulfates as synergists for

angiogenesis inhibition

AUTHOR(S):

Sakairi, Nobuo; Kuzuhara, Hiroyoshi; Okamoto, Taira;

Yajima, Motoyuki

CORPORATE SOURCE:

The Institute of Physical and Chemical Research

(RIKEN), Saitama, 351-01, Japan

SOURCE:

Bioorg. Med. Chem. (1996), 4(12), 2187-2192

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER:

Journal

Elsevier DOCUMENT TYPE: LANGUAGE: English

2-Amino-2-deoxy-cyclomaltoheptaose was prepd. from .beta.-cyclodextrin perbenzoate [heptakis(2,3,6-tri-O-benzoyl)cyclomaltoheptaose] by a series of reactions including selective de-O-benzoylation at C-2 of one of the perbenzoylated D-glucopyranosyl moieties, oxidn. to the 2-ulose deriv., oxime formation, and redn. to the 2-amino-2-deoxy-D-glucose moiety. This compd. and 6-amino-6-deoxycyclomaltoheptaose accessible from .beta.-cyclodextrin through the known procedure were sulfated to give polysulfated aminocyclomaltoheptaoses. Employing .beta.-cyclodextrin

polysulfate as a ref. compd., the synergistic effects of title compds. for cortexolone on angiogenesis inhibitory activity were examd. by rabbit-corneal micropocket assay system. In contrast to the significant anti-angiogenesis activity of the .beta.-cyclodextrin polysulfate-cortexolone pair, neither one of title compds. showed any cooperative activity with cortexolone in the inhibition of basic FGF-induced angiogenesis.

CC 33-8 (Carbohydrates)

Section cross-reference(s): 1

IT 134308-79-5P 188262-65-9P 188262-67-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and antiangiogenesis of 2-amino-2-deoxy- and 6-amino-6-deoxy-cyclomaltoheptaose polysulfates)

IT 188262-67-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and antiangiogenesis of 2-amino-2-deoxy- and 6-amino-6-deoxy-cyclomaltoheptaose polysulfates)

RN 188262-67-1 HCAPLUS

CN .beta.-Cyclodextrin, 2A-[(benzoyloxy)imino]-2A-deoxy-, 2B,2C,2D,2E,2F,2G,3A,3B,3C,3D,3E,3F,3G,6A,6B,6C,6D,6E,6F,6G-eicosabenzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

PAGE 1-A

PAGE 5-A

HCAPLUS COPYRIGHT 2002 ACS L20 ANSWER 7 OF 17

ACCESSION NUMBER:

1995:846948 HCAPLUS

DOCUMENT NUMBER:

123:313193

TITLE:

Preassociating .alpha.-Nucleophiles Based on

.beta.-Cyclodextrin. Their Synthesis and Reactivity Martin, Kristy A.; Mortellaro, Mark A.; Sweger, Robert

AUTHOR(S):

W.; Fikes, Lewis E.; Winn, David T.; Clary, Scott;

Johnson, Morgan P.; Czarnik, Anthony W.

CORPORATE SOURCE:

Department of Chemistry, Ohio State University,

SOURCE:

Columbus, OH, 43210, USA
J. Am. Chem. Soc. (1995), 117(42), 10443-8
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE:

Journal

English LANGUAGE:

The authors have expanded the field of enzyme mimics based on AB .beta.-cyclodextrin (.beta.CD) by attaching .alpha.-nucleophiles to the primary and secondary sides of the cyclodextrin cavity. Six new materials have been prepd. in which .beta.CD has been modified by hydrazine, hydroxylamine, oxime, and hydroperoxide functionalities. Transacylating studies with p-NPA have demonstrated that the primary-side hydroxylamine shows the highest reactivity with a 1900-fold increase in rate over .beta.CD at pH 6.5. Other .alpha.-nucleophiles show less remarkable rate increases in this system but, in some cases, demonstrate hydrogen-bonding to the cyclodextrin rim and inhibition kinetics.

22-4 (Physical Organic Chemistry) CC

138435-34-4P 138435-35-5P 170123-94-1P IT

RL: SPN (Synthetic preparation); PREP (Preparation)

(reactivity of .alpha.-nucleophiles based on cyclodextrin)

IT 138435-34-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(reactivity of .alpha.-nucleophiles based on cyclodextrin)

RN 138435-34-4 HCAPLUS

.beta.-Cyclodextrin, 6A-[(acetyloxy)amino]-6A-deoxy- (9CI) CN NAME)

HCAPLUS COPYRIGHT 2002 ACS L20 ANSWER 8 OF 17 1994:502017 HCAPLUS

ACCESSION NUMBER: 121:102017

DOCUMENT NUMBER:

Insecticidal compositions containing inclusion TITLE:

compounds of cyclodextrin and triazole

derivatives

Ikeuchi, Toshisuke; Misumi, Juji; Goto, Minoru; INVENTOR(S):

Adachi, Kyoichi; Nakano, Juki

PATENT ASSIGNEE(S): Kumiai Chemical Industry Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE A2 19931214 JP 1992-163612 JP 05331012 19920530 OTHER SOURCE(S): MARPAT 121:102017 The compns. contain inclusion compd. of cyclodextrin and 1-[O-isopropyl-3-(3,3-dimethylbutoxy)benzohydroximoyl]-1H-1,2,4-triazole derivs. The compns. have potent insecticidal activities at low concns. for an extended period. IC ICM A01N043-50 ICS A01N043-653; A01N055-00; C07D249-08 ICA C07D233-61 5-4 (Agrochemical Bioregulators) Section cross-reference(s): 28 ST benzohydroximoyltriazole deriv prepn insecticide IT Agrochemical formulations Insecticides (inclusion compds. contg. cyclodextrins and triazole derivs. for) IT 78-77-3, Isobutyl bromide RL: BIOL (Biological study) (condensation of, with triazole deriv. for insecticide prepn.) IT 153719-95-0 153719-96-1 153719-97-2 153719-98-3 153719-99-4 RL: BIOL (Biological study) (insecticidal formulation contg.) 153719-95-0 153719-96-1 153719-97-2 IT 153719-98-3 153719-99-4 RL: BIOL (Biological study) (insecticidal formulation contg.) 153719-95-0 HCAPLUS RN .beta.-Cyclodextrin, compd. with 1-[[3-(3,3-dimethylbutyl)phenyl][(1-CN methylethoxy)imino]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME) CM 1 CRN 144802-36-8 CMF C18 H26 N4 O

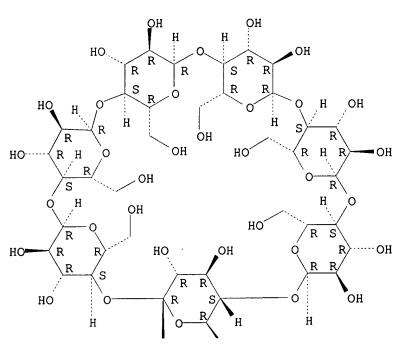
CM 2

CRN 7585-39-9 CMF C42 H70 O35

CDES 6:B-CYCLODEXTRIN

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

Н

RN 153719-96-1 HCAPLUS

CN .alpha.-Cyclodextrin, compd. with 1-[[3-(3,3-dimethylbutyl)phenyl][(1-methylethoxy)imino]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 144802-36-8 CMF C18 H26 N4 O

CM 2

CRN 10016-20-3 CMF C36 H60 O30 CDES 6:A-CYCLODEXTRIN

Absolute stereochemistry.

RN 153719-97-2 HCAPLUS

CN .beta.-Cyclodextrin, compd. with 1-[[5-(3,3-dimethylbutyl)-2-fluorophenyl][(1-methylethoxy)imino]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 144802-69-7 CMF C18 H25 F N4 O

$$\begin{array}{c|c} N & \text{OPr-i} \\ N & C \\ \hline \end{array}$$
 CH2-CH2-CMe3

CM 2

CRN 7585-39-9 CMF C42 H70 O35

CDES 6:B-CYCLODEXTRIN

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

RN 153719-98-3 HCAPLUS

.gamma.-Cyclodextrin, compd. with 1-[[5-(3,3-dimethylbutyl)-2fluorophenyl][(1-methylethoxy)imino]methyl]-1H-1,2,4-triazole (9CI) (CA
INDEX NAME)

CM 1

CN

CRN 144802-69-7 CMF C18 H25 F N4 O

$$\begin{array}{c|c} N & \text{OPr-i} \\ \hline N & C \\ \hline \end{array}$$
 CH₂-CH₂-CMe₃

CM 2

CRN 17465-86-0 CMF C48 H80 O40

CDES 6:GAMMA-CYCLODEXTRIN

RN 153719-99-4 HCAPLUS

CN .beta.-Cyclodextrin, compd. with 1-[[4-fluoro-3-(3-methylbutyl)phenyl][(1-methylethoxy)imino]methyl]-1H-1,2,4-triazole (9CI) (CA INDEX NAME)

CM 1

CRN 144801-94-5 CMF C17 H23 F N4 O

$$\begin{array}{c|c} N & N-\text{OPr-i} \\ \hline N & C & F \\ \hline CH_2-\text{CH}_2-\text{CHMe}_2 \end{array}$$

CM 2

CRN 7585-39-9 CMF C42 H70 O35 CDES 6:B-CYCLODEXTRIN

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A



L20 ANSWER 9 OF 17 ACCESSION NUMBER:

HCAPLUS COPYRIGHT 2002 ACS 1992:511918 HCAPLUS

DOCUMENT NUMBER:

117:111918

TITLE: Preassociating .alpha.-nucleophiles

AUTHOR(S): Fikes, Lewis E.; Winn, David T.; Sweger, Robert W.;

Johnson, Morgan P.; Czarnik, Anthony W.

CORPORATE SOURCE: Dep. Chem., Ohio State Univ., Columbus, OH, 43210, USA

SOURCE: J. Am. Chem. Soc. (1992), 114(4), 1493-5 CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal LANGUAGE: English

AB .beta.-Cyclodextrin transacylase mimics were prepd. from

.beta.-cyclodextran-6-O-tosylate and NH2NH2 or NH2OH.HCl. Both products are readily acylated with p-AcOC6H4NO2, while the hydroxylamine deriv. is

also acylated by m-AcOC6H4CMe3.

CC 33-4 (Carbohydrates)

Section cross-reference(s): 22

IT 138435-34-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, kinetics of)

IT 138435-34-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of, kinetics of)

RN 138435-34-4 HCAPLUS

CN .beta.-Cyclodextrin, 6A-[(acetyloxy)amino]-6A-deoxy- (9CI) (CA INDEX NAME)

L20 ANSWER 10 OF 17 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1992:429937 HCAPLUS

DOCUMENT NUMBER: 117:29937

TITLE: Composites of cyclodextrin nitrate esters for

propellants or explosives

INVENTOR(S): Consaga, John

PATENT ASSIGNEE(S): United States Dept. of the Navy, USA

SOURCE: U. S. Pat. Appl., 12 pp. Avail. NTIS Order No.

PAT-APPL-6-728 918.

CODEN: XAXXAV

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 728918	A0	19920215	US 1991-728918	19910708
US 5114506	Α	19920519		

AB An energetic composite comprising (1) a solid nitrate ester of a cyclodextrin or a mixt. of cyclodextrins and (2) an energetic org. nitrate ester plasticizer such as 1,1,1-trimethylolethane trinitrate (TMETN) is useful in gun propellants or explosives. The cyclodextrin nitrate esters are useful as replacements for the less thermally stable and more impact sensitive nitrocellulose.

CC 50-1 (Propellants and Explosives)

IT 138223-83-3

RL: USES (Uses)

(energetic composite contg. TMETN and, for gun propellants)

IT 138223-83-3

RL: USES (Uses)

(energetic composite contg. TMETN and, for gun propellants)

RN 138223-83-3 HCAPLUS

CN .beta.-Cyclodextrin, heneicosanitrate (9CI) (CA INDEX NAME)

L20 ANSWER 11 OF 17 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1992:41871 HCAPLUS

DOCUMENT NUMBER:

116:41871

TITLE:

Assignment of the proton, carbon-13, and nitrogen-15 resonances in cyclodextrin nitrates by 2D NMR and the

determination of the regioselectivity of the hydroxylamine-induced denitration reactions

AUTHOR(S):

Bulusu, S.; Axenrod, T.; Liang, B.; He, Y.; Yuan, L.

Dev. Eng. Cent., U. S. Army Armaments Res., Picatinny CORPORATE SOURCE:

Arsenal, NJ, 07806-5000, USA

Magn. Reson. Chem. (1991), 29(10), 1018-23

CODEN: MRCHEG; ISSN: 0749-1581

DOCUMENT TYPE:

Journal

LANGUAGE:

SOURCE:

English

Hexakis(2,3,6-tri-O-nitro)-.alpha.-cyclodextrin and heptakis(2,3,6-tri-O-AB nitro)-.beta.-cyclodextrin were prepd. and the complete assignment of the 1H, 13C, and 15N resonance signals in each case was achieved using homonuclear shift correlation expts., one-bond 13C-1H and three-bond 15N-O-C-1H heteronuclear shift correlation measurements. The denitration of these cyclodextrin nitrates by hydroxylamine in pyridine was investigated to study its selectivity in prepg. partially nitrated derivs. of these cyclodextrins. The sites of denitration were detd. in each case using 13C and 15N NMR and the products were completely characterized. results indicate that denitration of these cyclodextrin nitrates is a highly regiospecific reaction occurring at the 2-position only and giving rise to hexakis(3,6-di-O-nitro)-.alpha.-cyclodextrin and heptakis(3,6-di-O-nitro)-.beta.-cyclodextrin, resp.

CC 33-4 (Carbohydrates)

Section cross-reference(s): 22

138223-84-4P 138223-85-5P IT

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and NMR spectra of, proton, carbon-13, and nitrogen-15)

ΙT 138223-82-2P 138223-83-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and regioselective denitration of, with hydroxylamine, NMR in relation to)

IT 138223-84-4P 138223-85-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and NMR spectra of, proton, carbon-13, and nitrogen-15)

138223-84-4 HCAPLUS RN

.alpha.-Cyclodextrin, 3A, 3B, 3C, 3D, 3E, 3F, 6A, 6B, 6C, 6D, 6E, 6F-dodecanitrate CN · (9CI) (CA INDEX NAME)

$$O_2N-O-CH_2$$
 $O_2N-O-CH_2$
 $O_2N-O-CH_2$
 $O_2N-O-CH_2$
 $O_2N-O-CH_2$
 $O_2N-O-CH_2$
 $O_2N-O-CH_2$
 $O_2N-O-CH_2$
 $O_2N-O-CH_2$

RN 138223-85-5 HCAPLUS CN .beta.-Cyclodextrin,

.beta.-Cyclodextrin, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 6A, 6B, 6C, 6D, 6E, 6F, 6G-tetradecanitrate (9CI) (CA INDEX NAME)

$$O_2N-O-CH_2$$
 $O_2N-O-CH_2$
 $O_2N-O-CH_2$

IT 138223-82-2P 138223-83-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and regioselective denitration of, with hydroxylamine, NMR in relation to)

RN 138223-82-2 HCAPLUS

CN .alpha.-Cyclodextrin, octadecanitrate (9CI) (CA INDEX NAME)

PAGE 1-A

$$CH_2-O-NO_2$$
 O_2N-O
 $O_2N-O-CH_2$

PAGE 2-A

RN 138223-83-3 HCAPLUS .beta.-Cyclodextrin, heneicosanitrate (9CI) (CA INDEX NAME) CN

L20 ANSWER 12 OF 17 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1991:621768 HCAPLUS

DOCUMENT NUMBER: 115:221768

TITLE: .beta.-Cyclodextrin bound retrohydroxamate

ferrioxamines. Chiral iron(III) coordination and biological activity of synthetic siderophores

AUTHOR(S): Akiyama, Masayasu; Katoh, Akira; Kato, Junichi;

Takahashi, Keiko; Hattori, Kenjiro

CORPORATE SOURCE: Dep. Appl. Chem., Tokyo Univ. Agric. and Technol.,

Tokyo, 184, Japan

SOURCE: Chem. Lett. (1991), (7), 1189-92

CODEN: CMLTAG; ISSN: 0366-7022

DOCUMENT TYPE: Journal

LANGUAGE: English

AB R[NH(CH2)5((O)N(OH)(CH2)2C(O)]3NHQ (HQ = .beta.-cyclodextrin; R = Ac, C(O)OCMe3) synthetic siderophores that mimic linear and cyclic desferrioxamines were prepd. These synthetic siderophores form stable 1:1 Fe(III) complexes with a .DELTA.-selective coordination and show the growth promotion activity when tested with Aureobacterium flavescens.

CC 78-7 (Inorganic Chemicals and Reactions)

Section cross-reference(s): 10

IT 136429-46-4P 136429-48-6P

RL: RCT (Reactant); PREP (Preparation)
 (formation and hydrogenation of)

IT 136429-46-4P 136429-48-6P

RL: RCT (Reactant); PREP (Preparation)
 (formation and hydrogenation of)

RN 136429-46-4 HCAPLUS

.beta.-Cyclodextrin, 6A-deoxy-6A-[[3-[[6-[[3-[[6-[[3-[[6-[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxohexyl](phenylmethoxy)amino]-1-oxopropyl]amino]-1-oxohexyl](phenylmethoxy)amino]-1-oxohexyl](phenylmethoxy)amino]-1-oxopropyl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

PAGE 2-B ОН НО ОН НО HO-CH2 но-сн2 0 HOно-сн2 сн2-он OH ${\tt CH_2-OH}$ HO-HO-ОН НО СН2-ОН

PAGE 2-C

— ОН

— он

RN 136429-48-6 HCAPLUS

.beta.-Cyclodextrin, 6A-[[3-[[6-[[3-[[6-[[3-[[6-(acetylamino)-1-oxohexyl](phenylmethoxy)amino]-1-oxopropyl]amino]-1-oxohexyl](phenylmethoxy)amino]-1-oxopropyl]amino]-1-oxohexyl](phenylmethoxy)amino]-1-oxopropyl]amino]-6A-deoxy- (9CI) (CA INDEX NAME)

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PAGE 1-B

Page 46

PAGE 2-B

L20 ANSWER 13 OF 17 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1991:192366 HCAPLUS

DOCUMENT NUMBER:

114:192366

Journal

TITLE:

Effect of diethyl .beta.-cyclodextrin on the release

of nitroglycerin from formulations

AUTHOR(S):

SOURCE:

Umemura, Masashi; Ueda, Haruhisa; Tomono, Kazuo;

Nagai, Tsuneji

CORPORATE SOURCE:

Fac. Pharm. Sci., Hoshi Univ., Tokyo, 142, Japan

Drug Des. Delivery (1990), 6(4), 297-310

CODEN: DDDEEJ; ISSN: 0884-2884

DOCUMENT TYPE:

LANGUAGE: English

The complex-forming abilities of 2,6-di-0-ethyl-.beta.-cyclodextrin AB (DE-.beta.-CD), and its effect on the release of nitroglycerin (TNG) from formulations of the compd., were studied and compared with corresponding properties of .beta.-cyclodextrin (.beta.-CD) and 2,6-di-O-methyl-.beta.cyclodextrin (DM-.beta.-CD). Complex formation was confirmed by DSC and IR absorption spectroscopy. In an accelerator test involving temp. and reduced pressure, marked depression of the volatility of TNG was obsd. as a result of CD complex formation. Dissoln. rats of TNG from powdery TNG/DE-.beta.-CD complex and its tablets were retarded in comparison with the rates from other CD complexes. The release rate of TNG from ointments was accelerated by complexation with DE-.beta.-CD, and retarded by complexation with .beta.-CD. To evaluate their in vivo percutaneous absorption, samples were applied to the inside tip of the check pouch of male golden hamsters. The amt. of TNG remaining in the cheek pouch was lowest in the case of the TNG/DE-.beta.-CD complex ointment, and relatively high in the case of the TNG/.beta.-CD complex ointment, in agreement with the in vitro results. The combination of DE-.beta.-CD complex and .beta.-CD complex might be applicable to sustained-release prepns. for percutaneous administration.

CC 63-5 (Pharmaceuticals)

ST nitroglycerin absorption release formulation; diethyl cyclodextrin nitroglycerin formulation; cyclodextrin deriv nitroglycerin

formulation

IT 69709-16-6, Nitroglycerin-.beta.-cyclodextrin complex (1:1)

133461-81-1 133485-38-8

RL: BIOL (Biological study)

(formation and drug absorption and release from buccal ointments and tablets contg.)

IT 69709-16-6, Nitroglycerin-.beta.-cyclodextrin complex (1:1)

133461-81-1 133485-38-8

RL: BIOL (Biological study)

(formation and drug absorption and release from buccal ointments and tablets contg.)

RN 69709-16-6 HCAPLUS

CN .beta.-Cyclodextrin, compd. with 1,2,3-propanetriyl trinitrate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 7585-39-9

CMF C42 H70 O35

CDES 6:B-CYCLODEXTRIN

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

Н

CM 2

CRN 55-63-0 CMF C3 H5 N3 O9

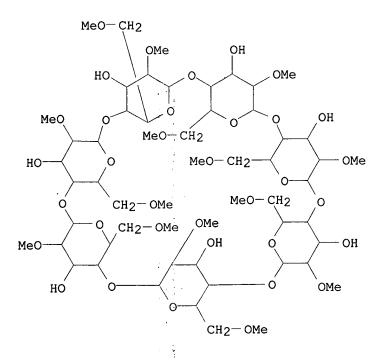
 $O-NO_2$ $O_2N-O-CH_2-CH-CH_2-O-NO_2$

RN 133461-81-1 HCAPLUS

CN .beta.-Cyclodextrin, 2A,2B,2C,2D,2E,2F,2G,6A,6B,6C,6D,6E,6F,6G-tetradeca-O-methyl-, compd. with 1,2,3-propanetriyl trinitrate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 51166-71-3 CMF C56 H98 O35 CDES 6:B-CYCLODEXTRIN



CM 2

CRN 55-63-0 CMF C3 H5 N3 Ó9

O-NO₂ | O₂N-O-CH₂-CH-CH₂-O-NO₂

RN 133485-38-8 HCAPLUS

CN .beta.-Cyclodextrin, 2A,2B,2C,2D,2E,2F,2G,6A,6B,6C,6D,6E,6F,6G-tetradeca-O-ethyl-, compd. with 1,2,3-propanetriyl trinitrate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 111689-03-3 CMF C70 H126 O35

Absolute stereochemistry.

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H

CM 2

CRN 55-63-0 CMF C3 H5 N3 O9

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O-NO<sub>2</sub>
|
O<sub>2</sub>N-O-CH<sub>2</sub>-CH-CH<sub>2</sub>-O-NO<sub>2</sub>
```

L20 ANSWER 14 OF 17 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1989:619185 HCAPLUS

DOCUMENT NUMBER: 111:219185

TITLE: Interaction of nitroglycerin with 6-0-.alpha.-

maltosylcyclomaltoheptose

AUTHOR(S): Tomono, Kazuo; Gotoh, Hiroko; Okamura, Makoto; Saitoh,

Taroh; Ueda, Haruhisa; Nagai, Tsuneji

CORPORATE SOURCE: Coll. Sci. Technol., Nihon Univ., Tokyo, 101, Japan

SOURCE: Carbohydr. Res. (1989), 192, 351-6 CODEN: CRBRAT; ISSN: 0008-6215

DOCUMENT TYPE: Journal LANGUAGE: English

The complexation of nitroglycerin (I) with 6-O-.alpha.-maltosyl-.beta.-cyclodextrin (G2-.beta.CD) in comparison with that of .beta.CD and other .beta.CD derivs. was studied. On complexation, 4 signals of I were shifted to higher field and 2 were shifted to lower field. The chem. shift data were similar for the I-G2-.beta.CD and I-.beta.CD systems, and suggest that I mol. was included partially in the cavity of G2-.beta.CD and .beta.CD. The volatility of I was decreased greatly on complexation and there was no significant difference between the complexes. I in all complexes degraded in alk. soln., the rat of degrdn. increasing in the series .beta.CD<G2-.beta.CD<di-Me .beta.CD<CD.

CC 63-5 (Pharmaceuticals)

ST nitroglycerin cyclodextrin **deriv** inclusion complexation; maltosylcyclomaltoheptose nitroglycerin inclusion complexation

IT 69709-16-6P, Nitroglycerin-.beta.-cyclodextrin inclusion complex (1:1) 123830-30-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and properties of)

IT 69709-16-6P, Nitroglycerin-.beta.-cyclodextrin inclusion complex (1:1) 123830-30-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and properties of)

RN 69709-16-6 HCAPLUS

CN .beta.-Cyclodextrin, compd. with 1,2,3-propanetriyl trinitrate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 7585-39-9 CMF C42 H70 O35 CDES 6:B-CYCLODEXTRIN

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

Н

CM 2

CRN 55-63-0 CMF C3 H5 N3 O9

O-NO₂ | O₂N-O-CH₂-CH-CH₂-O-NO₂

RN 123830-30-8 HCAPLUS

CN .beta.-Cyclodextrin, O-.alpha.-D-glucopyranosyl-(1.fwdarw.4)-O-.alpha.-D-glucopyranosyl-(1.fwdarw.6A)-, compd. with 1,2,3-propanetriyl trinitrate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 104723-60-6 CMF C54 H90 O45 Absolute stereochemistry.

PAGE 1-A

PAGE 3-A

CM 2

CRN 55-63-0 CMF C3 H5 N3 O9

O-NO₂ | | | O₂N-O-CH₂-CH-CH₂-O-NO₂

L20 ANSWER 15 OF 17 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1986:95468 HCAPLUS

DOCUMENT NUMBER: 104:95468

TITLE: Topical pharmaceuticals containing

2-nitrooxymethyl-6-chloropyridine-.beta.-cyclodextrin

inclusion compound

INVENTOR(S): Ueda, Yoshio; Shimojo, Fumio; Yoshida, Kiyoshige

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 60156607 · A2 19850816 JP 1984-12656 19840125

AB Topical formulations contain 2-nitrooxymethyl-6-chloropyridine (I), or its .beta.-cyclodextrin inclusion compd., for treatment of blood vessel disorders. The bioavailability of I via transdermal administration is better than that via oral route. Thus, a Macrogol ointment contg. I-.beta.-cyclodextrin inclusion compd. (mol. ratio 1:1) was prepd.

IC ICM A61K009-06 ICS A61K031-44; A61K047-00; C07D213-61

CC 63-6 (Pharmaceuticals)

ST pyridine nitrooxymethyl cyclodextrin pharmaceutical; cyclodextrin nitrooxymethylpyridine pharmaceutical; inclusion compd cyclodextrin pyridine deriv

IT 98213-09-3 100509-03-3

RL: BIOL (Biological study)

(topical pharmaceuticals contg., for blood vessel disorder treatment)

IT 98213-09-3 100509-03-3

RL: BIOL (Biological study)

(topical pharmaceuticals contg., for blood vessel disorder treatment)

RN 98213-09-3 HCAPLUS

CN .beta.-Cyclodextrin, compd. with (6-chloro-2-pyridinyl)methyl nitrate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 90500-72-4 CMF C6 H5 C1 N2 O3

CM 2

CRN 7585-39-9 CMF C42 H70 O35

CDES 6:B-CYCLODEXTRIN

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

Н

RN 100509-03-3 HCAPLUS

CN .beta.-Cyclodextrin, compd. with (6-chloro-2-pyridinyl)methyl nitrate (1:3) (9CI) (CA INDEX NAME)

CM 1

CRN 90500-72-4

Page 55

CMF C6 H5 C1 N2 O3

CM 2

CRN 7585-39-9 CMF C42 H70 O35

CDES 6:B-CYCLODEXTRIN

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

Н

L20 ANSWER 16 OF 17

.

HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1985:506576 HCAPLUS

DOCUMENT NUMBER:

103:106576

TITLE:

Electron microscopic study of cyclodextrin

derivatives

AUTHOR(S):

Hodi, Klara; Kata, Michael

CORPORATE SOURCE:

Dep. Pharm. Technol., Szeged Univ. Med. Sci., Szeged,

H-6701, Hung.

SOURCE:

Starch/Staerke (1985), 37(6), 205-8

CODEN: STARDD; ISSN: 0038-9056

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Electron microscopic investigations .alpha.- [10016-20-3], .beta.-AB [7585-39-9], and .gamma.-cyclodextrin [17465-86-0], di-Me .beta.-cyclodextrin [95176-10-6], crosslinked cyclodextrin (block polymer), and nitroglycerin-.beta.-cyclodextrin inclusion compd. [69709-16-6] are described.

44-6 (Industrial Carbohydrates) CC

10016-20-3 12619-70-4D, polymers 17465-86-0 IT 7585-39-9

69709-16-6 95176-10-6

RL: PROC (Process)

(morphol. and electron microscopy of)

ΙT 69709-16-6

RL: PROC (Process)

(morphol. and electron microscopy of)

69709-16-6 HCAPLUS RN

.beta.-Cyclodextrin, compd. with 1,2,3-propanetriyl trinitrate (1:1) (9CI) CN (CA INDEX NAME)

CM 1

CRN 7585-39-9 CMF C42 H70 O35

CDES 6:B-CYCLODEXTRIN

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

Н

CM 2

CRN 55-63-0 CMF C3 H5 N3 O9

O- NO₂ | O₂N-O-CH₂-CH-CH₂-O-NO₂

L20 ANSWER 17 OF 17 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1975:73336 HCAPLUS

DOCUMENT NUMBER:

82:73336

TITLE:

.omega.-Aldehydo sugars prepared by ninhydrin

oxidation

AUTHOR(S):

Gibson, Alan R.; Melton, Laurence D.; Slessor, Keith

Ν.

CORPORATE SOURCE:

Dep. Chem., Simon Fraser Univ., Burnaby, B. C., Can.

SOURCE:

Can. J. Chem. (1974), 52(23), 3905-12 CODEN: CJCHAG

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB 6-Aldehydocyclohexa-amylose and 1,2:3,4-di-O-isopropylidene-.alpha.-D-galacto-hexodialdo-1,5-pyranose were prepd. by oxidative deamination of 6-amino-6-deoxycyclohexaamylose and 6-amino-6-deoxy-1,2:3,4-di-O-iso-propylidene-.alpha.-D-galactopyranose, resp., using ninhydrin. The prepn of the two aldehydes by the ninhydrin reaction is compared with the photolysis of the corresponding azido sugars. The mass spectra of the perdimethylsilyl derivs. of cyclohexaamylose and O-methyl oxime of 6-aldehydocyclohexaamylose were recorded.

CC 33-3 (Carbohydrates)

Section cross-reference(s): 22

IT 4711-01-7P 4933-77-1P 20581-77-5P 55018-87-6P **55018-88-7P** RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of) 55018-88-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)

RN 55018-88-7 HCAPLUS

CN .alpha.-Cyclodextrin, 6A-deoxy-2A, 2B, 2C, 2D, 2E, 2F, 3A, 3B, 3C, 3D, 3E, 3F-dodecakis-O-(dimethylsilyl)-6A-(methoxyimino)- (9CI) (CA INDEX NAME)

IT

PAGE 1-A

PAGE 2-A

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COPYRIGHT (C) 2002 DERWENT INFORMATION LTD
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MOST RECENT DERWENT UPDATE
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L1
            860 S ?AMINOXY? OR ?AMINO OXY?
L2
L3
              2 S L1 AND L2
            539 S ?AMINOOXY? OR ?AMINO OXY?
L4
L5 2 S L1 AND L4
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1.5
     1999-540817 [45]
                       WPIDS
AN
DNC C1999-158030
     New aminooxy-cyclodextrin derivatives, useful as
TΤ
     complexants, solubilizers, carbonyl reagents, catalysts or intermediates.
DC
     A96 B04 B07 C03 C07 D21
     KHOMUTOV, A R; KHOMUTOV, R M; KORPELA, T; YAKOVLEV, D Y
IN
     (KHOM-I) KHOMUTOV A R; (KHOM-I) KHOMUTOV R M; (KORP-I) KORPELA T; (YAKO-I)
PA
     YAKOVLEV D Y
CYC 84
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     EP 1090041 A1 EP 1999-906292 19990304, WO 1999-FI167 19990304
FDT AU 9926279 A Based on WO 9945032; EP 1090041 Al Based on WO 9945032
PRAI FI 1998-489
                      19980304
          9945032 A UPAB: 19991103
```

NOVELTY - Aminooxy-cyclodextrins (I) are new. Also new are protected, oxime, nucleotide and nucleoside derivatives of (I). DETAILED DESCRIPTION - Aminooxy-cyclodextrins of formula CD-(X-Y-ONH2)n (I) and their aminooxy protected derivatives (especially with ethoxy-ethylidene protected aminooxy) are new: CD = mono- or polydeoxy alpha -, beta - or gamma cyclodextrin, carrying the X-Y-ONH2 group(s) in the 6-, 3- and/or 2-position(s) and optionally carrying further substituent(s) in the 6-, 3and/or 2-position(s); Y = linker group; and X = functional group or atom necessary to connect Y and CD; or X, Y = direct bonds; n = 1-24 for alpha -cyclodextrins, 1-21 for beta cyclodextrins or 1-18 for gamma -cyclodextrins. INDEPENDENT CLAIMS are included for: (a) novel oximes of (I) with synthetic or natural aldehydes or ketones (specifically acetone); (b) derivatives of pyrimidine or purine nucleotides or nucleosides with aminooxy-cyclodextrins (not restricted to (I)), where the aminooxy group is linked to the heterocyclic ring, preferably through pyrimidine C-4 and purine C-6; and (c) the preparation of (I). USE - (I) can be used as complexants, solubilizers, carbonyl reagents (which may inhibit certain enzymes in the metabolism of cells), catalysts or starting materials for the synthesis of products to be used in pharmaceuticals, cosmetics, agriculture or in science laboratories. Typically (I) can be used for the preparation of stable oximes; immobilized on solid supports to give chromatographic materials; (in the case of polyfunctional (I)) reacted with dialdehydes or diketone to give polymers for use as semipermeable or stereospecific membranes or slow-release carriers; or used to prepare inclusion complexes (e.g. for stabilizing steroids, prostaglandins or vitamins) or for recovery of metal ions from solution. ADVANTAGE - The oxime group is stable in aqueous solution, and allows a wide range of further conversions and applications. (I) are more stable than alkylamino-cyclodextrin analogs and can be prepared without using highly alkaline pH conditions. Dwg.0/4 DERWENT INFORMATION LTD ANSWER 2 OF 2 WPIDS COPYRIGHT 2002 1990-069155 [10] WPIDS DNC C1990-030273 Treating occlusive vascular diseases - using compsn. contg. piperidinyl-cyclopentyl 4-heptenoic acid deriv. and pentanoic acid deriv.. B03 C02 HUMPHREY, P P A; LUMLEY, P (GLAX) GLAXO GROUP LTD CYC 12 A 19900307 (199010)* EN 7p EP 357465 R: AT BE CH DE FR GB IT LI NL SE A 19900608 (199029) JP 02149521 A 19901106 (199047) US 4968703 EP 357465 A EP 1989-309093 19890830; JP 02149521 A JP 1989-221878 19890830; US 4968703 A US 1989-379372 19890713 19860808 19880831; GB 1986-19450 PRAI GB 1988-20578 357465 A UPAB: 19930928 Pharmaceutical compositions containing the thromboxane receptor blocker,

(1R-(alpha(Z), 2beta, 3beta, 5alpha)) - (+) -7 - (5 - ((1, 1'-biphenyl) - 4 - yl))methoxy)-3-hydroxy-2-(1-piperidinyl) cyclopentyl)-4 heptenoic acid (Cpd.

L5

AN

TΙ

DC

ΙN

PΑ

ΡI

AB

A) or a salt, solvate or **cyclodextrin** complex thereof, acts synergistically with a thromboxane synthase inhibitor, (E)-5-(((-5-((((3-pyridinyl) (3-(tri-fluoromethyl) phenyl) methylen) amino) oxy) pentanoic acid (Cpd. B).

USE/ADVANTAGE - Inhibition of blood platelet aggregation, and more specifically (1) treatment or prohylaxis of occlusive vascular diseases (claimed); (2) prophylaxis of cyclosparin A-induced nephrotoxicity (claimed); (3) treatment of asthma (claimed); (4) treatment of adult respiratory distress syndrome (claimed). In unit doses of 3.5 to 100 mg for Cpd. A and 5 to 500 mg for Cpd. B, administered 1 to 4 times daily, either simultaneously, sequentially or in combination. Cpd. A in combination with Cpd. B has a better biological profile of action, than the combination of Cpd. A and other thromboxane synthase inhibitors, such as dazoxiben or CV 4151 (as reported in EP-A-256805).